

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: METALUX

Report Number: P277007

Luminaire Tested: **24CZ2-45-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277007
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-45-RDP-UNV-L82765-W2A1-U-6500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3013.9 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

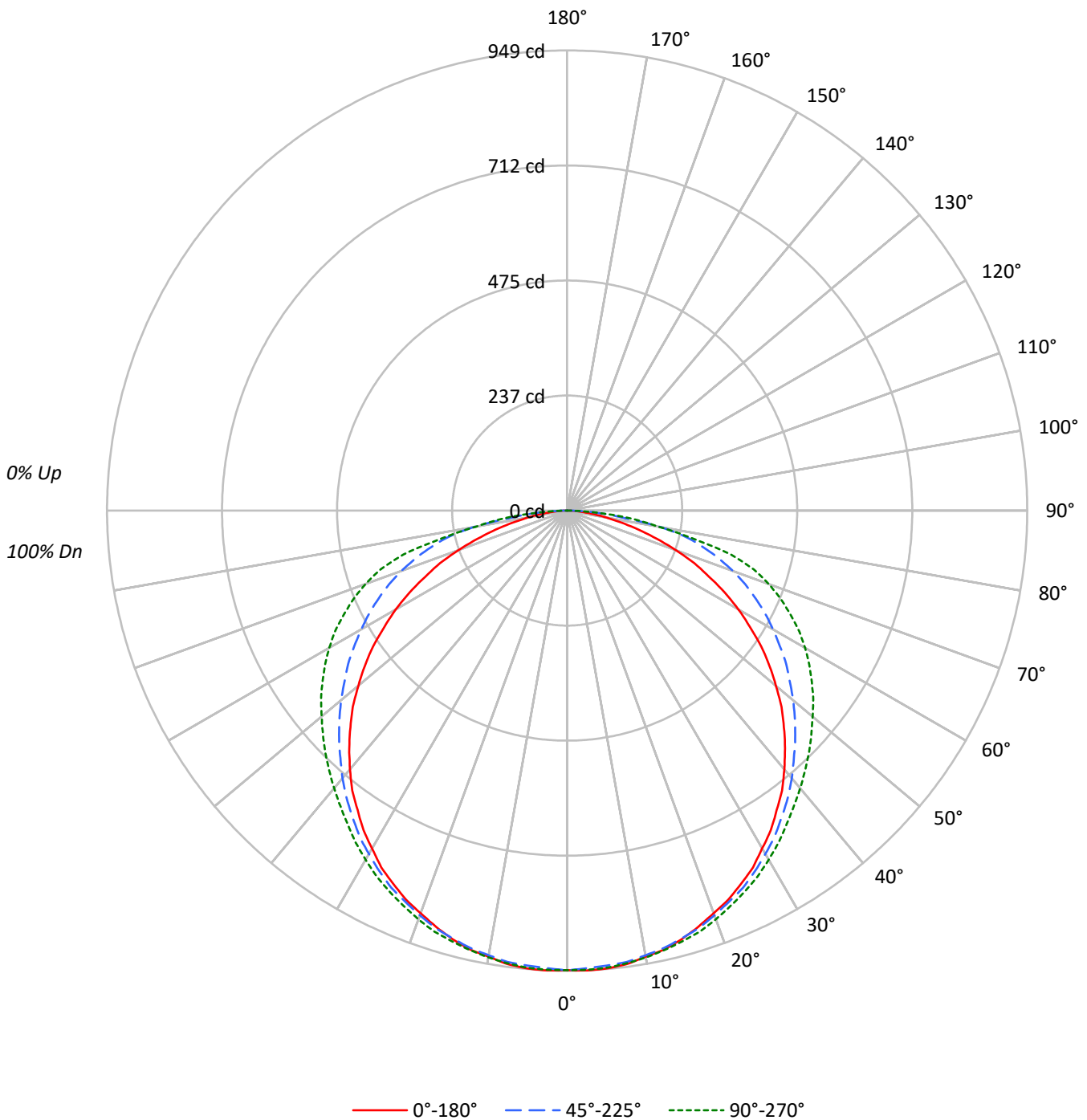
Input Watts (W): 36.549
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	68	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1275	1275	1275
5°	1280	1272	1278
10°	1276	1272	1279
15°	1274	1272	1281
20°	1265	1271	1284
25°	1261	1274	1287
30°	1250	1270	1291
35°	1237	1267	1296
40°	1224	1266	1313
45°	1203	1266	1343
50°	1177	1274	1383
55°	1147	1294	1445
60°	1098	1319	1525
65°	1028	1366	1618
70°	935	1429	1741
75°	793	1508	1818
80°	625	1517	1471
85°	462	1153	1292



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.9	3.0
10°-20°	258.7	8.6
20°-30°	395.7	13.1
30°-40°	483.7	16.0
40°-50°	515.5	17.1
50°-60°	492.9	16.4
60°-70°	417.6	13.9
70°-80°	280.6	9.3
80°-90°	79.2	2.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	744.3	24.7
0°-40°	1228.1	40.7
0°-60°	2236.5	74.2
0°-90°	3013.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3013.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	948	948	948	948	948	
5°	948	946	942	946	946	90
15°	915	915	913	921	919	258
25°	849	852	858	866	867	391
35°	753	759	771	786	789	472
45°	632	643	665	694	706	488
55°	489	507	552	595	616	435
65°	323	356	429	486	508	321
75°	152	208	290	339	350	163
85°	30	61	75	81	84	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	947.8	947.8	947.8	947.8	947.8
2.5°	949.3	949.3	944.8	947.8	947.8
5°	947.8	946.3	941.8	946.3	946.3
7.5°	943.3	941.8	938.8	943.3	941.8
10°	934.3	934.3	931.3	935.8	935.8
12.5°	926.9	925.4	923.9	929.8	928.3
15°	914.9	914.9	913.4	920.9	919.4
17.5°	899.9	901.4	902.9	908.9	910.4
20°	883.5	886.5	888.0	897.0	897.0
22.5°	868.6	870.0	873.0	882.0	882.0
25°	849.1	852.1	858.1	865.6	867.1
27.5°	829.7	831.2	838.7	849.1	850.6
30°	804.3	808.8	817.7	829.7	831.2
32.5°	781.8	786.3	796.8	808.8	811.7
35°	753.4	759.4	771.4	786.3	789.3
37.5°	728.0	732.5	747.5	763.9	768.4
40°	696.6	705.6	720.6	740.0	747.5
42.5°	665.2	674.2	692.2	717.6	726.5
45°	632.4	642.8	665.2	693.6	705.6
47.5°	599.5	611.4	636.8	669.7	683.2
50°	562.1	577.0	608.4	645.8	660.8
52.5°	526.2	544.2	578.5	620.4	639.8
55°	488.8	506.8	551.6	595.0	615.9
57.5°	447.0	470.9	520.2	569.6	592.0
60°	408.1	430.5	490.3	544.2	566.6
62.5°	366.3	396.2	460.4	517.2	539.7
65°	322.9	355.8	429.0	485.9	508.3
67.5°	284.0	319.9	397.7	454.5	476.9
70°	237.7	282.5	363.3	420.1	442.5
72.5°	194.3	243.7	327.4	382.7	403.6
75°	152.5	207.8	290.0	339.3	349.8
77.5°	113.6	171.9	251.1	272.1	264.6
80°	80.7	137.5	195.8	185.4	189.9
82.5°	52.3	104.6	121.1	137.5	142.0
85°	29.9	61.3	74.7	80.7	83.7
87.5°	13.5	22.4	29.9	29.9	28.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)